Microstructure Facil
Misc. x-ray tubes, P
Freeze etching devic
X-ray generator

0105

PHYSICAL CHEMISTRY OF SMOKE AND FILTRATION

Personnel Training: Physical chemistry, kinetics

Objective: Determine how filters function adequately so that selective filtration systems can be developed. Establish how cigarette smoke and cigarette rod characteristics are related adequately to permit new cigarette products to be designed prior to their fabrication.

Program:

(Goal 2&3) 1. Selective Filtration

a. Gas chromatography → sorption kinetics, filter free space characterization
b. Fixed Bed Adsorber → Sorption Kinetics
c. Particle size effects → composition variation with particle size

(Goal 1, 3 & 4) 2. Smoke-rod mathematical relationships → cigarette modelling

(Goal 1) 3. Smoke flavor and tar fractionation → low tar - normal flavor cigarette

Project Leader: Dr. H. A. Hartung, Senior Professional
Mr. J. F. Bebbs, Assistant Professional
Mr. R. W. Dwyer, Associate Professional
Mrs. Ruth Kaiser, Senior Technician
Mr. J. S. Osborne, Research Professional
Mr. D. L. Simpson, Research Professional
Mr. L. L. Stewart, Research Professional
Dr. D. T. Sawyer, Consultant - $500
Dr. J. C. Schug, Consultant - $500
One senior professional to be hired in 1974 as a replacement for Dr. C. G. Dodd

Goals

1. 10mg. Marlboro
2. Selective filtration
3. New products
4. Selective delivery by rod

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Source: https://www.industrydocuments.ucsf.edu/docs/hzhk0000